

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	11	(wafer substrate workpiece semiconductor) same (in\$1line) same (load\$3 with lock\$3)	EPO; JPO; DERWENT	OR	ON	2006/08/03 15:25
L4	139	(wafer substrate workpiece semiconductor) same (in\$1line) same (load\$3 with lock\$3)	US-PGPUB; USPAT	OR	ON	2006/08/03 15:25
L5	34	("4632624").URPN.	USPAT	OR	ON	2006/08/03 15:29
L6	6	("3874525"   "4208159"   "4315705"   "4336438"   "4355937"   "4479986").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 16:25
L7	1	("6298685").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/03 16:26
L8	1	"6298685".pn. and ("processing chamber" "processing chambers")	US-PGPUB; USPAT	OR	ON	2006/08/03 16:57
L9	1	("5174881").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/03 16:57
S7	6	((("6493629") or ("6340928") or ("6674403") or ("5977913") or ("6850735") or ("6714605")).PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 18:47
S8	3	((("5354381") or ("5572038") or ("5911832")).PN.	US-PGPUB; USPAT	OR	OFF	2006/03/23 16:23
S9	1	("6747464").PN.	US-PGPUB; USPAT	OR	OFF	2006/03/23 16:23
S10	2379	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/28 12:25
S11	3	S10 and "chemical oxide removal"	US-PGPUB; USPAT	OR	ON	2006/08/02 19:34
S12	19	("20010016226"   "20010046768"   "20020028555"   "20020063110"   "20020189757"   "4898798"   "5254505"   "5282925"   "5303671"   "5730803"   "5838055"   "5876879"   "6071815"   "6074951"   "6159297"   "6245619"   "6271094"   "6335261"   "6828254").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 12:31
S13	22	S10 and "oxide removal"	US-PGPUB; USPAT	OR	ON	2006/08/02 18:58
S14	12	(118/715-733.ccls. 156/345.\$ccls.) and "chemical oxide removal"	US-PGPUB; USPAT	OR	ON	2006/04/28 12:35
S15	10	("4883020"   "5236868"   "5303671"   "5474641"   "5609689"   "5695564"   "5972161"   "6143081"   "6178660"   "6467491").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 12:41
S16	5	("5240556"   "5344525"   "5554563"   "5670421"   "5830279").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/28 12:47
S17	13	"chemical oxide removal" adj (chamber apparatus section system reactor)	US-PGPUB; USPAT	OR	ON	2006/04/28 13:00
S18	0	ozawa-jun-\$in. takahashi-gaku-\$in.	US-PGPUB; USPAT	OR	ON	2006/08/02 18:47
S19	69	ozawa-jun.in. takahashi-gaku.in.	US-PGPUB; USPAT	OR	ON	2006/08/02 18:47
S20	2431	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/02 20:00
S21	10	S20 and (chemical with oxide with removal)	US-PGPUB; USPAT	OR	ON	2006/08/02 18:58
S22	114	"chemical oxide removal"	US-PGPUB; USPAT	OR	ON	2006/08/02 19:52

## EAST Search History

S23	6	S22 and (load\$3 with lock\$3)	US-PGPUB; USPAT	OR	ON	2006/08/02 19:36
S24	1	("5282925").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 19:36
S25	41	("5282925").URPN.	USPAT	OR	ON	2006/08/02 19:38
S26	0	("6858532").URPN.	USPAT	OR	ON	2006/08/02 19:45
S27	4	"10035970"	EPO; JPO; DERWENT	OR	ON	2006/08/02 19:46
S28	4	"10036970"	EPO; JPO; DERWENT	OR	ON	2006/08/02 19:46
S29	8	("4917556"   "5024570"   "5076205"   "5223443"   "5282925"   "5980770"   "6194286"   "6620729").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 19:46
S30	0	"chemical oxide removal" and "414"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/08/02 19:49
S31	0	"chemical oxide removal" and 427/255.5.ccls.	US-PGPUB; USPAT	OR	ON	2006/08/02 19:50
S32	10	"chemical oxide removal" and "216"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/08/02 19:50
S33	0	"chemical oxide removal" and (internation with business)	US-PGPUB; USPAT	OR	ON	2006/08/02 19:52
S34	78	"chemical oxide removal" and (international with business)	US-PGPUB; USPAT	OR	ON	2006/08/02 19:53
S35	9	"chemical oxide removal" and (international with business) and load\$3	US-PGPUB; USPAT	OR	ON	2006/08/02 19:55
S36	0	"chemical oxide removal" and load\$3	EPO; JPO; DERWENT	OR	ON	2006/08/02 19:55
S37	26	"chemical oxide removal"	EPO; JPO; DERWENT	OR	ON	2006/08/02 19:57
S38	12	10/705,200	US-PGPUB; USPAT	OR	ON	2006/08/02 19:58
S39	13	(load\$3 with lock\$3) and ((arm robot hand) with stretch\$3 with across)	US-PGPUB; USPAT	OR	ON	2006/08/02 20:01
S40	0	((arm robot hand) with stretch\$3 with (across over)) and S20	US-PGPUB; USPAT	OR	ON	2006/08/02 20:11
S41	24	((arm robot hand) with stretch\$3 ) and S20	US-PGPUB; USPAT	OR	ON	2006/08/02 20:02
S42	1865	((arm robot hand) with stretch\$3 with (across over))	US-PGPUB; USPAT	OR	ON	2006/08/02 20:11
S43	3	((arm robot hand) with stretch\$3 with (across over)) and (118/715-733.ccls. 156/345.\$ccls. "216"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/08/02 20:13
S44	150	((arm robot hand) same in\$1line same (stretch\$3 reach\$3) same (across over))	US-PGPUB; USPAT	OR	ON	2006/08/02 20:14
S45	8135	((arm robot hand) same (stretch\$3 reach\$3) ) and in\$1line	US-PGPUB; USPAT	OR	ON	2006/08/02 20:15
S46	613	((arm robot hand) same (stretch\$3 reach\$3) same in\$1line)	US-PGPUB; USPAT	OR	ON	2006/08/02 20:15
S47	71	((arm robot hand) same (stretch\$3 reach\$3) same in\$1line) and (substrate wafer semiconductor workpiece)	US-PGPUB; USPAT	OR	ON	2006/08/02 20:15
S48	35	((arm robot hand) with (stretch\$3 reach\$3)) same in\$1line) and (substrate wafer semiconductor workpiece)	US-PGPUB; USPAT	OR	ON	2006/08/02 20:20
S49	224	((arm robot hand) with (stretch\$3 reach\$3)) and S20	US-PGPUB; USPAT	OR	ON	2006/08/02 20:21
S50	18	((arm robot hand) with (stretch\$3 reach\$3)) and S20 and in\$1line	US-PGPUB; USPAT	OR	ON	2006/08/02 20:21

## EAST Search History

S51	21	("20020080291"   "4405435"   "4500407"   "4643629"   "4651674"   "4813846"   "4981408"   "4993559"   "5288329"   "5379984"   "5738767"   "6027618"   "6083566"   "6205870"   "6228439"   "6251191"   "6309525"   "6315879"   "6336546"   "6358377"   "6451181").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/02 20:24
S52	14	("5288329").URPN.	USPAT	OR	ON	2006/08/02 20:28
S53	150	S20 and (in\$1line)	USPAT	OR	ON	2006/08/02 20:28
S54	202	S20 and (in\$1line)	US-PGPUB; USPAT	OR	ON	2006/08/02 20:42
S55	1	("6335261").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/02 20:42
S56	6	("6217272").URPN.	USPAT	OR	ON	2006/08/03 10:42
S57	101	("3902615"   "3972424"   "4008815"   "4405435"   "4437961"   "4534695"   "4558984"   "4586743"   "4668365"   "4715921"   "4747928"   "4785962"   "4819167"   "4842683"   "4872947"   "4892753"   "4911597"   "4951601"   "4962441"   "5000113"   "5013385"   "5046909"   "5102495"   "5199483"   "5215619"   "5224809"   "5227708"   "5280983"   "5292393"   "5308431"   "5315473"   "5344542"   "5345999"   "5354715"   "5355066"   "5360996"   "5362526"   "5363872"   "5371042"   "5387067"   "5391035"   "5399387"   "5427666"   "5443995"   "5447409"   "5460689"   "5469035"   "5512320"   "5521120"   "5534231"   "5538390"   "5556147"   "5556248"   "5563798"   "5566744"   "5570994"   "5579718"   "5607009"   "5607776"   "5630690"   "5630916"   "5630917"   "5636964"   "5643366"   "5656902"   "5658442"   "5661913"   "5674786"   "5678980"   "5697427"   "5697750"   "5730801"   "5740062"   "5746460"   "5746897"   "5747360"   "5764012"   "5780357"   "5784238"   "5788453"   "5788799"   "5789878"   "5795355"   "5799860"   "5803977"   "5810937"   "5822171"   "5824197"   "5833426"   "5838121"   "5844195"   "5846883"   "5851602"   "5855681"   "5861086"   "5861197"   "5871588"   "5871811"   "5877086"   "5879127"   "5882165").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 11:08
S58	101	("3902615"   "3972424"   "4008815"   "4405435"   "4437961"   "4534695"   "4558984"   "4586743"   "4668365"   "4715921"   "4747928"   "4785962"   "4819167"   "4842683"   "4872947"   "4892753"   "4911597"   "4951601"   "4962441"   "5000113"   "5013385"   "5046909"   "5102495"   "5199483"   "5215619"   "5224809"   "5227708"   "5280983"   "5292393"   "5308431"   "5315473"   "5344542"   "5345999"   "5354715"   "5355066"   "5360996"   "5362526"   "5363872"   "5371042"   "5387067"   "5391035"   "5399387"   "5427666"   "5443995"   "5447409"   "5460689"   "5469035"   "5512320"   "5521120"   "5534231"   "5538390"   "5556147"   "5556248"   "5563798"   "5566744"   "5570994"   "5579718"   "5607009"   "5607776"   "5630690"   "5630916"   "5630917"   "5636964"   "5643366"   "5656902"   "5658442"   "5661913"   "5674786"   "5678980"   "5697427"   "5697750"   "5730801"   "5740062"   "5746460"   "5746897"   "5747360"   "5764012"   "5780357"   "5784238"   "5788453"   "5788799"   "5789878"   "5795355"   "5799860"   "5803977"   "5810937"   "5822171"   "5824197"   "5833426"   "5838121"   "5844195"   "5846883"   "5851602"   "5855681"   "5861086"   "5861197"   "5871588"   "5871811"   "5877086"   "5879127"   "5882165").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 11:28
S59	6	("6217272").URPN.	USPAT	OR	ON	2006/08/03 11:28
S60	13	("3650042"   "4597736"   "5228208"   "5237756"   "5314541"   "5516367"   "5616208"   "5667197"   "5735961"   "5747119"   "5759287"   "5833425"   "6016611").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 11:32
S61	33	("5314541").URPN.	USPAT	OR	ON	2006/08/03 11:33

## EAST Search History

S62	40	("20020011207"   "4975168"   "5044314"   "5267607"   "5286296"   "5303671"   "5314541"   "5436202"   "5439780"   "5489339"   "5524131"   "5611655"   "5618350"   "5761064"   "5822389"   "5837059"   "5906680"   "5914493"   "5925227"   "5943230"   "5980591"   "6086952"   "6110232"   "6211081"   "6224312"   "6275744"   "6319322"   "6321134"   "6328864"   "6409932"   "6448537"   "6457866"   "6468384"   "6508062"   "6605226"   "6663333"   "6672864"   "6707533"   "6736927"   "6828235").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 11:38
S63	6	("4640223"   "4680061"   "4839145"   "5044314"   "5121705"   "5182231").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 12:02
S64	701	(414/935-941.cds. 414/217-221.cds.) and (load\$3 with lock\$3 with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 12:04
S65	76	(414/935-941.cds. 414/217-221.cds.) and (load\$3 with lock\$3 with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with (stretch\$4 reach\$4 skip\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 12:19
S66	160	(wafer substrate workpiece semiconductor) same (load\$3 with lock\$3 with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with (stretch\$4 reach\$4 skip\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 12:19
S67	192	(wafer substrate workpiece semiconductor) same (load\$3 with lock\$3 with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with (stretch\$4 reach\$4 skip\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 12:25
S68	735	(wafer substrate workpiece semiconductor) and (in\$1line and ((transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with (stretch\$4 reach\$4 skip\$4) with (across over through))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 13:59
S69	3	(wafer substrate workpiece semiconductor) and (in\$1line with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with skip\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 13:58
S70	1395	(wafer substrate workpiece semiconductor) and (in\$1line with order)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 13:59
S71	275	(wafer substrate workpiece semiconductor) and (in\$1line with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with order\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 14:00
S72	116	(wafer substrate workpiece semiconductor) same(in\$1line with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with order\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 14:00
S73	17	(wafer substrate workpiece semiconductor) and (in\$1line with (transfer\$4 transport\$4 arm robot hand device convey\$4 mechanism) with order\$3)	EPO; JPO; DERWENT	OR	ON	2006/08/03 14:06
S74	4	(wafer substrate workpiece semiconductor) and (in\$1line) and (load\$3lock)	EPO; JPO; DERWENT	OR	ON	2006/08/03 14:07
S75	28	(wafer substrate workpiece semiconductor) and (in\$1line) and (load\$3 with lock\$3)	EPO; JPO; DERWENT	OR	ON	2006/08/03 15:25
S76	6	(c23c016\$.ipc. c23f001\$.ipc. ho11021\$.ipc.) and (in\$1line) and (load\$3 with lock\$3)	EPO; JPO; DERWENT	OR	ON	2006/08/03 14:34
S77	1	("6298265").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/03 14:35
S78	1	("6298685").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/03 14:35
S79	3	("6298685").URPN.	USPAT	OR	ON	2006/08/03 14:35

## EAST Search History

S80	53	("3850105"   "3973665"   "3976330"   "4047624"   "4166563"   "4649830"   "4682927"   "4749465"   "4775281"   "4829445"   "4846102"   "4857689"   "4870923"   "4913929"   "4951601"   "4985722"   "4989543"   "5001327"   "5060354"   "5086729"   "5110249"   "5178638"   "5187115"   "5203443"   "5227708"   "5252807"   "5259883"   "5275709"   "5288379"   "5292393"   "5352294"   "5355066"   "5377816"   "5382126"   "5425611"   "5447409"   "5469035"   "5470784"   "5512320"   "5535306"   "5536128"   "5537311"   "5607009"   "5611865"   "5674786"   "5700127"   "5701627"   "5846328"   "5879128"   "5881649"   "5883017"   "5976199"   "6013134").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/03 14:46
S81	0	("2001064824").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/03 14:46
S82	3	("2001064824").PN.	EPO; JPO; DERWENT	OR	OFF	2006/08/03 14:46